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Notes

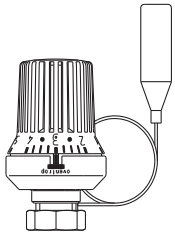
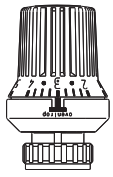
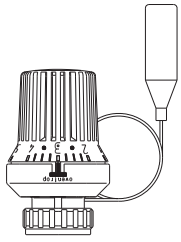
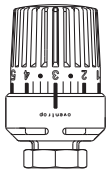
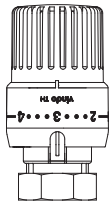
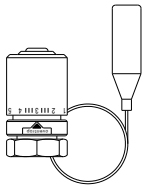
Oventrop's Standard Terms and
Conditions of Sale and Warranty apply.

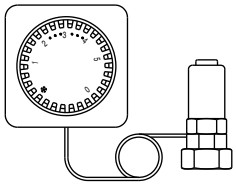
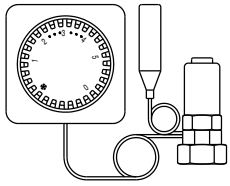
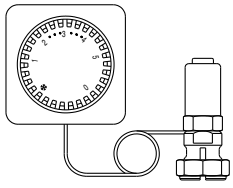
If not stated otherwise, all hydronic parts
in this list are suitable for hot water with
an operating temperature of up to 240 °F
and an operating pressure of up to 50 psi.

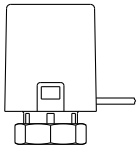
This list reflects some 100 items
from the Oventrop product line of
approximately 4.000 items.
We will be updating our product range for
the USA on a regular basis.

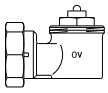
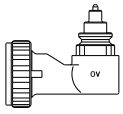
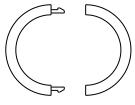
For information on additional items,
please visit our website
www.oventrop-na.com

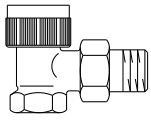
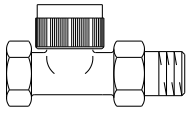
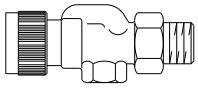
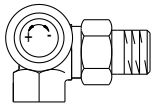
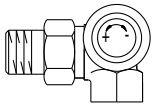
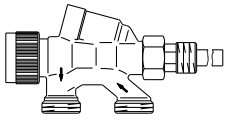
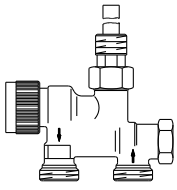
Upon request we will gladly investigate
availability and pricing of items not
mentioned in this book.

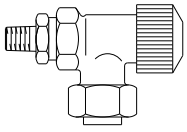
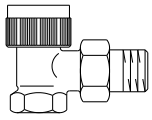
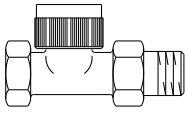
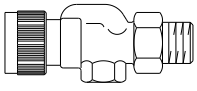
	Item	Box qty.	Thread	Item no.	List PriceInformation
	Thermostat "Uni XH" with liquid sensor				These actuators provide an elegantly simple means of controlling space temperature by adjusting the flow rate through the heater. Modulating (not on-off) control that enables automatic matching of heat loss.
	white model	(100)	M 30 x 1,5	**101 13 65**	
	same with remote sensor				Temperature setting may be limited or locked. Memory disc to mark favorite setpoint "0" setting = positive "off" "X" setting = freeze protection Temperature range 42° . . . 84°F Markings on the dial 0X 1-5
	capillary 6 ½ feet	(10)	M 30 x 1,5	**101 15 65**	
	capillary 16 feet	(10)	M 30 x 1,5	**101 15 66**	
	**Thermostat "Uni XD"** with liquid sensor				"XD" thermostats can be fitted without adapter to Danfoss valves, series RA (squeeze connection) and Buderus radiators with integrated valve assembly.
	white model	(50)	squeeze	**101 13 75**	
	same with remote sensor				
	capillary 6 ½ feet	(10)	squeeze	**101 15 75**	
	**Thermostat "Uni LH"** with liquid sensor				Temperature setting may be limited or locked. Memory disc to mark favorite setpoint "0" setting = positive "off" "X" setting = freeze protection Temperature range 42° . . . 84 °F
	chrome plated model with two piece trim ring to hide nickel plated lock nut	(10)	M 30 x 1,5	**101 14 69**	
	**Thermostat "Vindo"** with liquid sensor	(10)	M 30 x 1,5 squeeze	**101 30 65** **101 30 75**	Vindo is a new compact model for 2007.
	Thermostat "Uni DH" with wax sensor compact model				Temperature setting may be limited or locked. "0" setting = positive "off" "X" setting = freeze protection Temperature range 42° . . . 84°F
	white model	(100)	M 30 x 1,5	**101 10 65**	No "positive off" setting
	same with remote sensor				Most actuators can be supplied with 2 available connections: 1. Threaded M 30 x 1,5 for use with Oventrop valves 2. "Squeeze" type for use with Danfoss valves
	capillary 6 ½ feet	(10)	M 30 x 1,5	**101 11 65**	

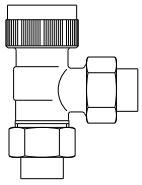
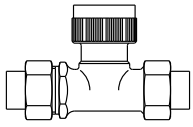
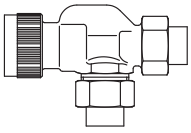
	Item	Box qty.	Thread	Item no.	List Price	Information
	Thermostat with remote control ”Uni LH”					Wall mounted remote control (for radiators, baseboard, floor heating).
	white model					
	capillary 6 ½ feet	(25)	M 30 x 1,5	**101 22 95**		Temperature setting may be limited or locked by means of hidden set tabs. ”0” setting = positive ”off” ”X” setting = freeze protection Temperature range 42° . . . 84°F
	capillary 16 feet	(25)	M 30 x 1,5	**101 22 96**		
	capillary 33 feet	(10)	M 30 x 1,5	**101 22 97**		
	white model with additional remote sensor					Same features as above, plus a remote sensor.
	capillary 6 ½ feet	(10)	M 30 x 1,5	**101 23 95**		
	capillary 16 feet	(10)	M 30 x 1,5	**101 23 96**		
	Thermostat with remote control ”Uni LD”					”LD” thermostats can be fitted without adapter to Danfoss valves, series RA (squeeze connection) and Buderus radiators with integrated valve assembly.
	white model					
	capillary 6 ½ feet	(10)	squeeze	**101 22 75**		

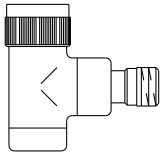
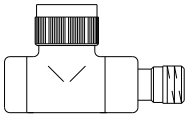
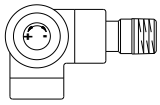
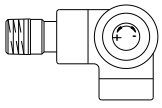
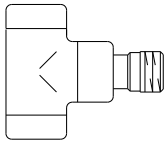
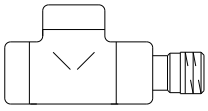
	Item	Box qty.	Item no.	List Price	Information
	Electrothermal actuators				Electrothermal actuators control the room temperature and can be used with conventional radiators, manifolds for underfloor heating systems, radiant and chilled ceiling systems and fan coil units. The actuators are protected against overvoltage.
	Electrothermal actuator (LH) connection thread M 30 x 1,5 ”compact design” normally closed, 24 V, 2 Watt with end switch	(100)	**101 24 96**		For floor heat manifolds and zone valves. Slow acting to prevent water hammer. Cable 32" (4 wires). End switch can be used to start a pump through a line voltage relay.
	**Electrothermal actuator** connection thread M 30 x 1,5 normally closed, 24 V		**101 24 86**		For mixing and diverting valves. Can be converted to normally open. Cable 40" (2 wires).

	Item	Box qty.	Item no.	List Price	Information
	Right angle adapter threaded connection	(10)	**101 14 50**		For Oventrop radiator valves with connection M 30 x 1,5.
	Same with squeeze connection	(10)	**101 14 52**		For Danfoss radiator valves series RA.
	Thread adapter from M 30 x 1,0 to M 30 x 1,5	(10)	**101 14 45**		
	”Uni-Clip” vertical reading adapter ring for ”Uni XH” and ”Uni XD”				Transposes setting numbers from horizontal to vertical reading.
	Thermostat mounted right side	(50)	**101 13 96**		
	Thermostat mounted left side	(50)	**101 13 97**		
	Vandal Guard for thermostat ”Uni XH” white model	(25)	**101 17 66**		Prevents unauthorized removal of thermostat. Includes allen key. Min. order qty. = 5
	for thermostat ”Uni DH” white model	(10)	**101 19 11**		
	2 piece trim ring to hide nickel plated lock nut of ”Uni XH”	(50)	**101 13 93**		Min. order qty. = 5
	Manual temperature adjuster for all valves with M 30 x 1.5 thread	(10)	**101 25 65**		

	Item	Box qty.	Thread	Item no.	List Price	Information
	Zone/radiator valves with M 30 x 1,5 threaded actuator connection, brass, nickel plated					
	”Series AZ” (for hot water)					These valves can be used with 4 types of actuators: 1. Manual adjuster (included) 2. Thermostatic (non-electric) 3. Thermostatic remote capillary (non-electric) 4. 24 V electric for on/off control
	Angle pattern valve		NPT/NPT			
	½"	(25)		**188 90 04**		
	¾"	(25)		**188 90 06**		
	1"	(10)		**188 90 08**		
	1 ¼"	(10)		**188 90 10**		
	Straight pattern valve		NPT/NPT			All valve inserts are replaceable under working conditions by means of the special tool ”Demo-Bloc”. System does not need to be drained!
	½"	(25)		**188 91 04**		
	¾"	(25)		**188 91 06**		
	1"	(10)		**188 91 08**		
	1 ¼"	(10)		**188 91 10**		
	Reversed angle pattern valve		NPT/NPT			
	½"	(25)		**188 92 04**		
	¾"	(25)		**188 92 06**		
	Double angle pattern valve		NPT/NPT			
	½" left hand side connection	(25)		**169 40 62**		
	½" right hand side connection	(25)		**169 40 63**		
	One pipe radiator injection valves with constant bypass and shut off					The constant bypass of the one pipe radiator injection valves is adjusted to a radiator flow share of 35%. The insertion tube is 6" long, has a diameter of 7/16" and the distance between pipe centres is 50 mm.
	Connections ½" to radiator ¾" (R 20) to system					
	with horizontal insertion tube			**118 35 61**		
	with vertical insertion tube			**118 35 71**		The one pipe radiator injection valve with vertical insertion tube is especially suitable for towel radiators. (The technical instructions of the radiator manufacturers need to be observed.)

	Item	Box qty.	Thread	Item no.	List Price	Information
	”Series S” (for low pressure steam, max. 15 psi)					
	**Steam Radiator Valve**					
	One-pipe steam radiator valve		NPT			M 30 x 1,0 Actuator thread.
	1/8"	(25)		**188 83 51**		Add adapter item no. 101 14 45.
	Angle pattern valve		NPT/NPT			These valves can be used with 4 types of actuators:
	1/2"	(25)		**189 90 04**		1. Manual adjuster (included)
	3/4"	(25)		**189 90 06**		2. Thermostatic (non-electric)
	1"	(25)		**189 90 08**		3. Thermostatic remote capillary (non-electric)
	1 1/4"	(25)		**189 90 10**		4. 24 V electric for on/off control
	Straight pattern valve		NPT/NPT			
	1/2"	(25)		**189 91 04**		All valve inserts are replaceable under working conditions by means of the special tool ”Demo-Bloc”.
	3/4"	(25)		**189 91 06**		
	1"	(25)		**189 91 08**		
	1 1/4"	(25)		**189 91 10**		System does not need to be drained!
	Reversed angle pattern valve		NPT/NPT			
	1/2"			**189 92 04**		
	3/4"			**189 92 06**		

Item	Box qty.	Thread	Item no.	List Price	Information
Zone/radiator valves with M 30 x 1,5 threaded actuator connection, brass, nickel plated, standard AZ insert					
 Angle pattern valve		sweat/sweat			Incl. (2) unions and sweat tails.
1/2"	(25)		**169 44 04**		
3/4"	(25)		**169 44 06**		
 Straight pattern valve		sweat/sweat			
1/2"	(25)		**169 44 14**		
3/4"	(25)		**169 44 16**		
3/4"	(25)		**169 44 16 ZV**		
3/4"	(25)		**169 44 16 ZVO**		
*1694416ZV inculdes (1) 1012496 Electrothermal actuator (LH) connection thread M 30 x 1,5,normally closed, 24 V, 2 Watt with end switch. *1694416ZVO includes (1) 1012486 Electrothermal actuator connection thread M 30 x 1,5, normally open, 24 V.					
 Reversed angle pattern valve		sweat/sweat			
1/2"			**169 44 24**		
3/4"			**169 44 26**		
Sweat tailpiece for zone radiator valves					
1/2"	(100)		**198 76 51**		
3/4"			**198 76 52**		If ordered separately.
1"			**198 76 53**		
1 1/4"			**198 76 54**		

Item	Thread	Item no.	List Price	Information
Radiator valves ”Series E” actuator connection M 30 x 1,5				Designer Series for use with towel racks or panel radiators. Gold plated or anthracite models upon request.
 Angle pattern valve	BSP			
½" chrome plated		**116 30 52**		
½" white powder coated		**116 30 62**		
 Straight pattern valve	BSP			
½" chrome plated		**116 31 52**		
½" white powder coated		**116 31 62**		
Double angle pattern valve	BSP			
 left hand side connection				
½" chrome plated		**116 34 52**		
½" white powder coated		**116 34 62**		
 right hand side connection				
½" chrome plated		**116 34 53**		
½" white powder coated		**116 34 63**		
Service valve ”Combi E”				Normally used on return side of radiator or towel rack. Allows isolation, balancing with fill and drain capabiltity.
 Angle pattern	BSP			
½" chrome plated		**116 60 52**		
½" white powder coated		**116 60 62**		
 Straight pattern	BSP			
½" chrome plated		**116 70 52**		
½" white powder coated		**116 70 62**		

Awards:

Design Award of
North Rhine Westphalia,
Award of Honour for Industrial Products

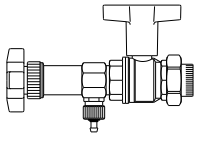
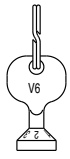
Industrial Design Forum Hannover
Award iF

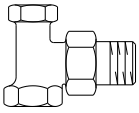
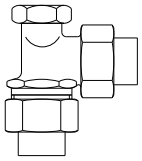
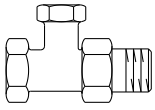
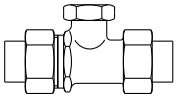
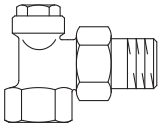
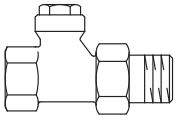
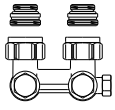
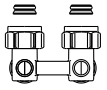
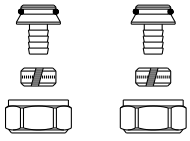
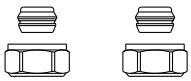
Design Innovation of Design Centre Essen
Award for high Quality of Design

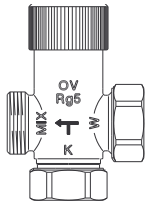
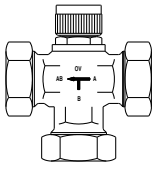
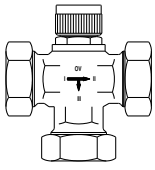
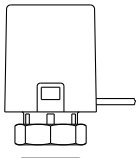
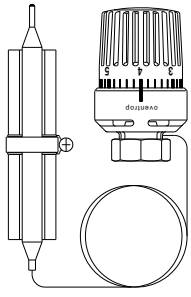
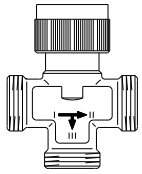
Pragotherm, Prague

German Institute for Copper Berlin
Award ”Product and Brass”

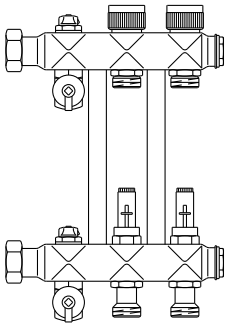
Admission to ”The New Collection”
for exemplary Design Munich,
”Design Laboratory” Museum of
Art and Commerce Hamburg and
Design Museum London.

	Item	C_V	Item no.	List Price	Information
	Valve inserts for all valves M 30 x 1,5 (M 30 x 1,0 upm request)				
	Valve insert ”Series AZ”	1.28	**118 70 60**		Standard with Oventrop zone/radiator valves M 30 x 1,5 Highest Cv.
	Valve insert ”Series AV 6” with presetting	0.75	**118 70 57**		Adjustable Cv valve insert, allows technician to balance flow rate. Six different settings.
	Valve insert ”Series ADV 6” ”Landlord model”	0.75	**118 60 01**		Same as ”Series AV 6”, but with additional feature that, if thermostat is removed, flow will be restricted to 5% of normal flow.
	Valve insert with stainless steel seat	0.70	**118 62 00**		Especially for steam installations.
	Special valve insert	0.52	**118 70 70**		Low Cv, to correct reversed supply/return hookup.
	Valve insert ”Series KT”	0.58	**114 71 69**		Opens valve upon rising temperature.
	Valve insert ”Series TM” ½" ¾" 1" 1¼"	 1.1 1.2 1.3 1.6	**106 70 85**		Insert for pressure differential of up to 40 psi (for commercial baseboard etc.).
	Gland nut Set = 5 pieces		**101 75 01**		Wrench size 14 mm Min. order qty. = 5
	**”Demo-Bloc”** special tool for replacing Oventrop valve inserts under working conditions for both M 30 x 1,0 and M 30 x 1,5 thread connections		**118 80 51**		
	**Key** for flow rate setting on AV 6 / ADV 6 inserts		**118 39 61**		

	Item	Box qty.	Thread	Item no.	List Price	Information
	Service valve ”Combi 2” balancing, shut-off					
	Angle pattern nickel plated		NPT inlet NPT tailpiece			
	½" ¾" **109 10 83**	(100)		**109 10 82**		Used on the return side of radiators, baseboard or floor heat to provide balancing and shut-off capability. Use 5/32" (4 mm) allen key.
	½" ¾"	(100) (25)	sweat/sweat	**109 10 92** **109 10 93**		Incl. (2) unions and sweat tails.
	Straight pattern nickel plated		NPT inlet NPT tailpiece			
	½" ¾"	(100) (25)		**109 11 82** **109 11 83**		
	½"	(100)	sweat/sweat	**109 11 92**		Incl. (2) unions and sweat tails.
	Service valve ”Combi 4” balancing with memory position, shut-off, filling and draining					
	Angle pattern nickel plated		NPT inlet NPT tailpiece			
	½" ¾"			**109 06 82** **109 06 83**		
	Straight pattern nickel plated		NPT inlet NPT tailpiece			
	½" ¾"			**109 07 82** **109 07 83**		
	”Multiflex” fittings for Panel Radiators with Bottom Tappings and Built-in Valve Assembly (such as Buderus, DiaNorm)					
	Diverter valves ½" angle same, Straight	(10)		**101 59 34** **101 59 33**		For Series Loop systems, allows setting of flow to next radiators in loop. Isolation capability. Factory Setting 35%.
	2-Pipe isolating valve ½" angle same, Straight	(10)		**101 58 14** **101 58 13**		
	Adapter from ½" female to ¾" male (Euroconus)	(10)		**102 82 53**		For use with compression fittings.
	**”Euroconus”** compression fittings for Floor Heat Manifolds ”Unibox”, Panel Radiators etc.					
	US – PEX ⅜" US – PEX ½" US – PEX ⅝"	(100) (100) (100)		**164 68 49** **164 68 50** **164 68 51**		
	Copper ½" Copper ½"	(100) (100)		**101 68 44** **101 68 64**		

	Item	C_V	Box qty.	Thread	Item no.	List Price	Information
	**Self Contained Mixing Valve** ¾", incl. 3 unions and ¾" Sweat Tails	1,4			**130 02 00**		For small radiant heating jobs, Temperature range 86° F – 158° F. **Do not use for potable water.**
	**Three-way mixing valve PN 16** bronze						Actuator connection M 30 x 1,5
	¾"	5,2		Union	**113 17 06**		With 3 unions to accept threaded or sweat tailpieces (not included).
	1"	7,6		Union	**113 17 08**		
	1 ½"	11,0		Union	**113 17 12**		
	**Three-way diverting valve** bronze						Actuator connection M 30 x 1,5
	¾"	5,2		Union	**113 02 06**		With 3 unions to accept threaded or sweat tailpieces (not included).
	1"	7,6		Union	**113 02 08**		
	1 ½"	11,0		Union	**113 02 12**		
	Sweat tailpiece/3-fold						
	¾"				**198 76 72**		
	1"				**198 76 73**		
	1 ¼"				**113 01 96**		
	1 ½"				**198 76 75**		
	NPT tailpiece/3-fold						
	¾"			NPT	**170 60 06**		
	1"			NPT	**170 60 08**		
	1 ¼"			NPT	**170 60 10**		
	1 ½"			NPT	**170 60 12**		
	**Electrothermal actuator 24 V** connection M 30 x 1,5 normally closed		(10)		**101 24 86**		Can be converted to normally open. Cable 40", 2 wire. Protected against overvoltage.
	**Non-electric actuator** with strap-on sensor and transfer unit		(10)		**114 28 62**		Temperature range 85° – 140° F. M 30 x 1,5 connection. Capillary 6 ½ ft.
			(10)		**114 28 63**		Temperature range 85° – 158° F. M 30 x 1,5 connection. Capillary 6 ½ ft.
	**Three-way diverting valve, ½"** "one in, two out design" incl. (3) unions and ½" sweat tails				**114 25 04**		Will accept any Oventrop 24 V actuators, non-electric or manual control with M 30 x 1,5 connection.

Item	Thread	Item no.	List Price	Information

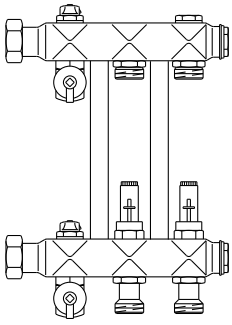


Stainless steel manifold 1"
for underfloor heating systems
with inline zone valves and "flowmeters"
flat sealing, with valve inserts M 30 x 1,5
for thermostatic and electronic control

for 2 branches		**140 41 72**	
for 3 branches		**140 41 73**	
for 4 branches		**140 41 74**	
for 5 branches		**140 41 75**	
for 6 branches		**140 41 76**	
for 7 branches		**140 41 77**	
for 8 branches		**140 41 78**	
for 9 branches		**140 41 79**	
for 10 branches		**140 41 80**	
for 11 branches		**140 41 81**	
for 12 branches		**140 41 82**	

Application:
Stainless steel manifold for radiant floor systems.

Description:
Assembled manifold with fill/drain valves, vent plugs and end caps. Branch connections ¾" male threads (R 20) for compression fittings. Inline zone valves and flow meters. Sound absorbing brackets.
1" sweat tails.

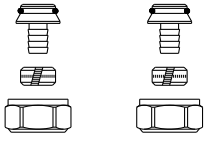


Stainless steel manifold 1"
for underfloor heating systems
with "flowmeters"
but valveless
flat sealing, with valve inserts M 30 x 1,5
for thermostatic and electronic actuators

for 2 branches		**140 42 72**	
for 3 branches		**140 42 73**	
for 4 branches		**140 42 74**	
for 5 branches		**140 42 75**	
for 6 branches		**140 42 76**	
for 7 branches		**140 42 77**	
for 8 branches		**140 42 78**	
for 9 branches		**140 42 79**	
for 10 branches		**140 42 80**	
for 11 branches		**140 42 81**	
for 12 branches		**140 42 82**	

Application:
Stainless steel manifold for radiant floor, radiator or baseboard systems.

Description:
Assembled manifold with fill/drain valves, vent plugs and end caps. Branch connections ¾" male threads (R 20) for compression fittings. Supply side valveless, return side with flow meters. Sound absorbing brackets.
1" sweat tails.



Euroconus"
compression fittings for Floor Heat Manifolds "Unibox", Panel Radiators etc.

US – PEX ⅜"	(100)	**164 68 49**	
US – PEX ½"	(100)	**164 68 50**	
US – PEX ⅝"	(100)	**164 68 51**	

Sweat tailpiece

1"	BSP/sweat	**140 70 08**	If purchased separatley.

Coupling
nickel plated

¾" x 1"	BSP/BSP	**140 72 06**	Connects (2) manifolds. Max. # of loops not to exceed (12).

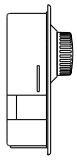
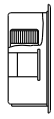
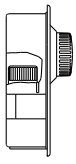
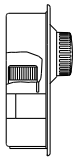
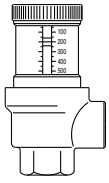
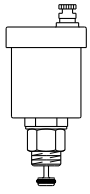
Sweat tailpiece with thermometer

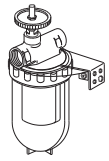
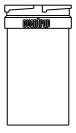
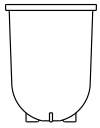
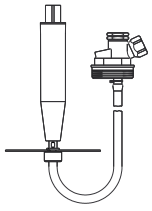
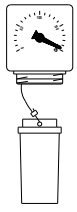
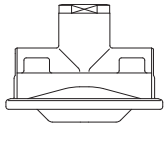
1"	BSP/sweat	**140 98 06**	

Double feed adapter

¾" x 1"	BSP/NPT	**140 71 06**	To feed a manifold from both sides.

for compression fittings, refer to page 12

	Item	Box qty.	Thread	Item no.	List Price	Information
	**”Unibox E T”** for radiant floor control supply temperature control			**102 26 32**		All in one, wallmounted room thermostat and zone valve. Simply route piping (PEX or copper) up and down in the stud cavity to the ”Unibox” for modulating thermostatic control of floor heat or base-board.
	**”Unibox E RTL”** for radiant floor, limits return temperature			**102 26 31**		
	**”Unibox E plus”** combination of supply temperature control and return temperature limitation			**102 26 33**		
	**”Unibox E BV”** Individual room temperature control with bypass for underfloor heating systems without distributor/collector			**102 26 62**		
	**Pressure actuated bypass valve** bronze/brass with indicator					Adjustable from 2-17 ft. of head (ip). To maintain adequate boiler flow and reduce system velocity noises. Normally piped between supply and return pipes downstream from pump. Opens up as needed (when zones close).
	¾"	(20)	NPT	**165 98 06**		
	1"	(6)	NPT	**165 98 08**		
	1 ¼"	(6)	NPT	**165 98 10**		
	**Automatic airvent** brass					Air bleed can be removed from a system, taken apart and cleaned without draining.
	⅛"	(100)	NPT	**108 83 81**		
	½"	(100)	NPT	**108 83 84**		With automatic stop valve.

Item	Item no.	List Price	Information
 **Fuel Oil Filters, Transparent Cup**			UL Listed under # 58 AB.
Brass Head, Built-in Fire/Isolation Valve, 10 Micron Sintered Plastic Element			
⅜" female NPT Connections			
Standard “S” Filter, 23 GpH	**263 27 61**		
Magnum “M” Filter, 34 pH	**263 27 71**		
Bracket	**212 68 03**		
Special Wrench	**212 66 91**		
 **Fuel Filter Replacement Elements (include O-Ring)**			
Sintered Plastic 10 micron for “S” Filter	**263 28 61**		
Sintered Plastic for “M” Filter	**263 28 71**		
Nickel Mesh 50 micron (for “S” Filter only)	**212 61 00**		
Sintered Bronze 10 micron (for “S” Filter only)	**212 60 54**		
 **Fuel filter Spare Parts**			
Replacement “S” Cup	**212 67 51**		
Replacement “M” Cup	**212 67 55**		
Replacement Brass Union	**212 66 00**		
Replacement O-Ring	**212 65 00**		
 **Floating Suction Kit**			Fuel oil is drawn 2“ from the surface.
2" NPT tank, ⅜" fuel line connection Incl.check valve and 6ft of suction line			
for 1-pipe systems	**205 36 51**		
for 2-pipe systems	**205 36 53**		
 **Gauges**			
Tank Gauge (Rope Type)	**206 00 12**		
Same, vapor/water tight	**206 03 12**		
 **Anti Siphoning Valve (OSV)**			Shuts off fuel oil supply in case of broken fuel line downstream.
Inlet and outlet ⅜" NPT fem.			
“Oilstop F” for bottom draw (H= 3 ft)	**263 42 51**		
“Oilstop F” for top draw (H= 6 ft)	**263 42 52**		

Item	Item no.	List Price	Information

“Regumat-130” DN 25 (1”)

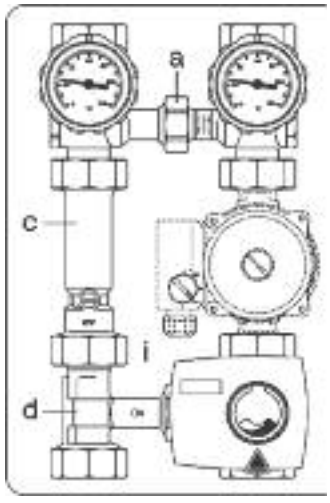
Regumat M3
“Regumat M3-130 DN 25”
consisting of one isolation device with two ball valves and two thermometers, one check valve, one three-way mixing valve with opintional presettable bypass and one insulation case.

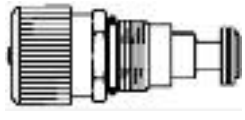
168 52 85

With the boiler connection system “Regumat”, Oventrop offers all components which are required for the connection of boiler, pump and pipework. The products are supplied as a complete system for size DN 25 (1”).
Oventrop boiler valves are made of brass or bronze.
All Oventrop boiler valves are designed for a pressure of PN 10 (145 psi).
Advantages:
– high functional efficiency
– all components from one supplier
– complete systems available
– high quality materials
– time-saving installation
– insulation housing helps prevents energy loss. packaging.
1“Regumat M3,M4-130” DN 25 (1”)
Pump length 130 mm
with three or four-way mixing valve with optional presettable bypass and insulation housing.

Regumat M4
“Regumat M4-130 DN 25”
consisting of one isolation device with two ball valves and two thermometers, one check valve, one three-way mixing valve with opintional presettable bypass and one insulation case.

(1) **168 54 85**



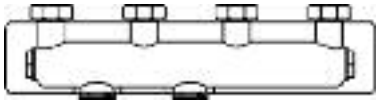


135 33 90

Differential pressure relief device for converting "Regumat" M3+M4 - 130

135 20 96

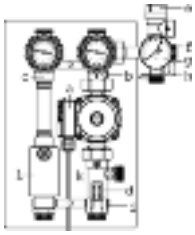
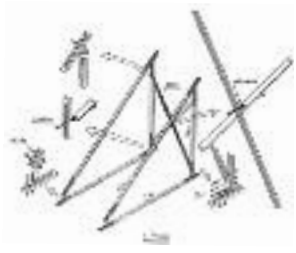
Wall bracket for "Regumat -130"

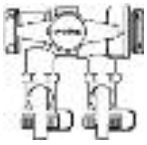


135 15 71*

Manifold distributor with insulation for “Regumat - 130”

*Available January 2008

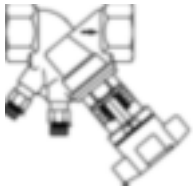
Item	Item no.	List Price	Information
			
Regusol Controls 130			
Regusol 130	**169 70 65**	$1,135.23	Transmission unit "Regusol 130" **No Differential Controller** safety group/airvent, Wilo, 0-4 GPM flow meter. Size: DN 25 (1") Model: with Wilo-pump ST-16U-25
Regusol EL - 130	**169 80 65**	$1,525.97	Transmission unit "Regusol EL-130" safety group/airvent, Wilo, 0-4 GPM flow meter and differential controller. Size: DN 25 (1") Model: with Wilo-pump ST-16U-25
OV Solar Collectors			
Flat Plate Collector	**540 00 18**	$1,058.82	
8 Evacuated Tube Collector **	**540 00 08**	$2,367.57	
16 Evacuated Tube Collector **	**540 00 16**	$4,321.58	** Connection Tees and Sensor Port are not included with the collector. They are packaged with the Mounting Hardware and can not be purchased separately.
16 Evacuated Tube Collector Kit*	**540 00 16K**	$10,597.60	
*Includes (1) 169 80 65, (1) 540 00 16, (1) 540 00 80 DC, (1) 540 00 90, (1) 136 30 51, (1) 540 00 28			
24 Evacuated Tube Collector Kit*	**540 00 17K**	$12,901.95	
*Includes (1) 169 80 65, (1) 540 00 16, (1) 540 00 08, (1) 540 00 90, (1) 136 30 51, (2) 540 00 28, (1) 540 00 21, (1) 540 01 15 DC			
Solar Working Fluid			
5 Gallon NT/40 Glycol - Pre mixed to 40%	**540 00 90**	$180.21	
OV Solar Storage Tanks			
60 Gallon Dual Coil Tank	**540 00 60 DC**	$2,935.05	
80 Gallon Dual Coil Tank	**540 00 80 DC**	$3,831.52	
80 Gallon Single Coil Tank	**540 00 80 SC**	$3,596.22	
80 Gallon Single Coil Tank w/ Electric Backup	**540 00 80 E**	$4,066.29	
115 Gallon Dual Coil Tank	**540 01 15 DC**	$4,610.61	
115 Gallon Single Coil Tank	**540 01 15 SC**	$4,375.31	
115 Gallon Single Coil Tank w/ Electric Backup	**540 01 15 E**	$4,845.90	
Roof Mounting Hardware			
			
Flat Roof/Ground Mount Kit 8	**540 00 28-8**	$683.67	
Flat Roof/Ground Mount Kit 16	**540 00 28-16**	$702.63	
Collector Expansion Kit	**540 00 21**	$78.05	See page 20 for contents of each
Roof Mounting Kit - Shingle/Flush	**540 00 28-FM**	$627.74	
Roof Mounting Kit - Shingle/Adjustable 8	**540 00 28-8**	$193.02	
Roof Mounting Kit - Shingle/Adjustable 16	**540 00 28-16**	$603.21	
Roof mounting Kit Expansion - Shingle	**540 00 21**	$78.05	
Roof Mounting Kit - Standing Metal Seam	**540 00 28-MS**	$542.89	
Roof mntng Kit Expansion - Standing Metal Seam	**540 00 21**	$78.05	
Roof Mounting Kit - Tile	**540 00 28-TK**	$520.37	
Roof mounting Kit Expansion - Tile	**540 00 21**	$78.05	

Item	Item no.	List Price	Information
			
Solar Valves			
Filling and Flushing Device	**136 30 51**	$125.41	
Siting Tools			
Solar Pathfinder w/Case	**540 04 00**	$616.53	
Solar Pathfinder w/Case and Tripod	**540 04 00 TP**	$731.60	

Item	Item no.	Package Contents
Mounting Hardware		
Flat Roof/Ground Mount Kit 8	**540 00 28-8**	(4) Aluminum channel feet, (2) Pieces 66” Galvanized Strut, (1) Piece 50” Galvanized Strut, (1) Piece 32” Galvanized Strut, (4) 1/2” Bolt/Washer/Nut sets, (4) Type C Hinge leafs, (2) Type B Hinge leafs, (2) Type A Hinge leafs, (22) 5/16” Bolt/Washers/Nut sets, (8) 1” Spacers, (2) Compression T-Fittings, (1) Air Vent, (1) Thermowell, (2) Pipe Adapters
Flat Roof/Ground Mount Kit 16	**540 00 28-16**	(4) Aluminum channel feet, (2) Pieces 66” Galvanized Strut, (1) Piece 50” Galvanized Strut, (1) Piece 58” Galvanized Strut, (4) 1/2” Bolt/Washer/Nut sets, (4) Type C Hinge leafs, (2) Type B Hinge leafs, (2) Type A Hinge leafs, (22) 5/16” Bolt/Washers/Nut sets, (8) 1” Spacers, (2) Compression T-Fittings, (1) Air Vent, (1) Thermowell, (2) Pipe Adapters
Collector Expansion Kit*	**540 00 21**	(1) Straight Compression Coupling, (1) Aluminum Manifold Sleeve(standard or extruded header), (1) “L” Profile Bracket
Roof Mounting Kit Flush - Shingle/Flush	**540 00 28-FM**	(4) Aluminum channel feet, (4) Type C Hinge leafs, (14) 5/16” Bolt/Washers/Nut sets, (8) 1” Spacers, (2) Compression T-Fittings, (1) Air Vent, (1) Thermowell, (2) Pipe Adapters
Roof Mounting Kit Flush - Shingle/Flush	**540 00 28-8**	(4) Aluminum channel feet, (2) Pieces 66” Galvanized Strut, (1) Piece 50” Galvanized Strut, (1) Piece 32” Galvanized Strut, (4) 1/2” Bolt/Washer/Nut sets, (4) Type C Hinge leafs, (2) Type B Hinge leafs, (2) Type A Hinge leafs, (22) 5/16” Bolt/Washers/Nut sets, (8) 1” Spacers, (2) Compression T-Fittings, (1) Air Vent, (1) Thermowell, (2) Pipe Adapters
Roof Mounting Kit Flush - Shingle/Flush	**540 00 28-16**	(4) Aluminum channel feet, (2) Pieces 66” Galvanized Strut, (1) Piece 50” Galvanized Strut, (1) Piece 58” Galvanized Strut, (4) 1/2” Bolt/Washer/Nut sets, (4) Type C Hinge leafs, (2) Type B Hinge leafs, (2) Type A Hinge leafs, (22) 5/16” Bolt/Washers/Nut sets, (8) 1” Spacers, (2) Compression T-Fittings, (1) Air Vent, (1) Thermowell, (2) Pipe Adapters
Roof mounting Kit Expansion* - Shingle	**540 00 21**	1) Straight Compression Coupling, (1) Aluminum Manifold Sleeve(standard or extruded header), (1) “L” Profile Bracket
Roof Mounting Kit - Metal Seam	**540 00 28-MS**	(4) Standing Metal Seam Roof Clamps, (4) 1” Aluminum Spacers, (4) 3/8” Bolt/Washer sets, (2) Compression T-Fittings, (1) Air Vent, (1) Thermowell, (2) Pipe Adapters
Roof mounting Kit Expansion* - Metal Seam	**540 00 21**	(1) Straight Compression Coupling, (1) Aluminum Manifold Sleeve(standard or extruded header), (1) “L” Profile Bracket
Roof Mounting Kit - Tile	**540 00 28-TK**	(4) Tile mounting Brackets, (1) Aluminum Manifold Sleeve (standard or extruded header), (1) “L” Profile Bracket, Hardware, (2) Compression T-Fittings, (1) Air Vent, (1) Thermowell, (2) Pipe Adapters
Roof mounting Kit Expansion* - Tile	**540 00 21**	(1) Straight Compression Coupling, (1) Aluminum Manifold Sleeve(standard or extruded header), (1) “L” Profile Bracket

Item		Item no.	List Price

Bronze balancing valve with NPT thread

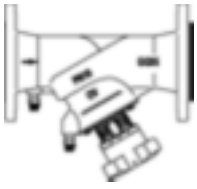


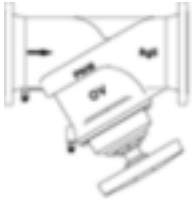
DN15	1⁄2"	**106 10 04**
DN 20	3⁄4"	**106 10 06**
DN25	1"	**106 10 08**
DN32	11⁄4"	**106 10 10**
DN40	11⁄2"	**106 10 12**
DN 50	2"	**106 10 16**

Bronze balancing valve with solder connection

DN15	1⁄2"	**106 05 51**
DN 20	3⁄4"	**106 05 52**
DN25	1"	**106 05 53**
DN32	11⁄4"	**106 05 54**
DN40	11⁄2"	**106 05 55**
DN 50	2"	**106 05 56**

Flanged cast iron balancing valve (ANSI)



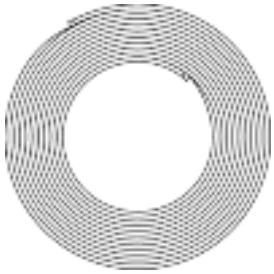


DN 20	3⁄4"	**106 29 46**
DN 25	1"	**106 29 47**
DN32	11⁄4"	**106 29 48**
DN40	11⁄2"	**106 29 49**
DN 50	2"	**106 29 50**
DN 65	21⁄2"	**106 29 51**
DN80	3"	**106 29 52**
DN 100	4"	**106 29 53**
DN 125	5"	**106 29 54**
DN 150	6"	**106 29 55**
DN 200	8"	**106 29 56**
DN 250	10"	**106 29 57**
DN 300	12"	**106 29 58**

Cast iron balancing valve with groove connection

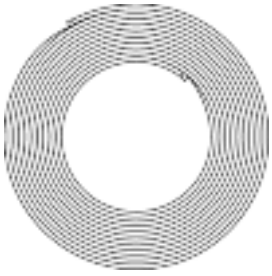
DN 65	21⁄2"	**106 30 51**
DN80	3"	**106 30 52**
DN 100	4"	**106 30 53**
DN 125	5"	**106 30 54**
DN 150	6"	**106 30 55**
DN 200	8"	**106 30 56**
DN 250	10"	**106 30 57**
DN 300	12"	**106 30 58**

Item	Item no.	List Price per foot



PE-Xc/AL/PE-X composition pipe “Copipe”

DN 12 16x 2 mm (1/2”)	
length per roll 200 m (657 ft)	**150 02 55 - 200**
DN 15 20x2.5 mm (3/4”)	
length per roll 50 m (165 ft)	**150 10 60 - 50**
DN 20 26x3 mm (1”)	
length per roll 50 m (165 ft)	**150 10 66 - 50**



PE-Xc plastic pipes "Copex”

1/2” OV-PEX O2 Barrier Pipe	
length per roll 300’	**460 00 02 - 300**
length per roll 1000’	**460 00 02 - 000**
5/8” OV-PEX O2 Barrier Pipe	
length per roll 100’	**460 00 03 - 100**
length per roll 1000’	**460 00 03 - 000**
3/4” OV-PEX O2 Barrier Pipe	
length per roll 100’	**460 00 04 - 100**
length per roll 1000’	**460 00 04 - 000**
1” OV-PEX O2	
length per roll 100’	**460 00 05 - 100**
length per roll 100’	**460 00 05 - 300**

Oventrop Corporation - Limited Warranty

Oventrop Corp. warrants to its “Customers” that all Oventrop products, used for heating and plumbing applications and sold in accordance with these warranty provisions, shall be free from defects in material and workmanship. “Customer” as used herein shall mean an end-user of Oventrop products.
Five (5) years for all solar components from the date of purchase, unless otherwise specified in writing.
In order to be eligible for a warranty claim, Products sold
(1) must be installed and maintained professionally according to the relevant assembly instructions and the product manual,
(2) must only be used for purposes provided in the Oventrop Corp.□s product description or assembly instructions,
(3) must be exposed only to gaseous or liquid media approved for the product by Oventrop Corp., and
(4) shall not be combined with products of other manufacturers unless otherwise stated in the product manual.
Oventrop Corp.□s sole obligation hereunder shall be, at its option, to issue credit, repair or replace any component or part thereof which is proved to be defective. The limited warranty does not cover cost for transportation or labor charges (including installation and removal) unless such charges are authorized in writing in advance by the Oventrop Corp. Any repairs without the express written consent of Oventrop Corp. shall render this limited warranty invalid. Oventrop Corp. disclaims allowances for dismounting and consequential losses and damages.
Warranty claims must be received by Oventrop Corp. within the applicable warranty period and within thirty (30) days from the cause for the claim occurred or was discovered. Upon receipt of prompt notice of a warranty claim, Oventrop Corp. shall have ten (10) business days in which to determine whether it acknowledges responsibility for any asserted defects in material or workmanship and the appropriate action to be taken.
This limited warranty and any claims arising from the breach of warranty, or any other claim arising hereunder, shall be governed and construed under the laws of the State of New York. No other persons than Oventrop Corp. employees have any expressed or implied authority to bind Oventrop Corp. to any agreement or warranty of any kind without the express written consent of Oventrop Corp.

Disclaimer of Warranties:
OVENTORP CORP. DISCLAIMS ANY WARRANTY NOT PROVIDED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IT IS EXPRESSLY UNDERSTOOD THAT OVENTORP CORP. IS NOT RESPONSIBLE FOR ANY CONSEQUENTIAL OR OTHER DAMAGES THAT MAY ARISE FROM USING OVENTROP CORP. SYSTEM COMPONENTS. DAMAGE RESULTING FROM WATER FREEZING IN THE TUBING DOES NOT CONSTITUTE A DEFECT IN MATERIAL OR WORKMANSHIP, AND SHALL NOT BE COVERED BY THIS WARRANTY. OVENTROP-TUBING MAY NOT BE STORED IN DIRECT SUNLIGHT FOR ANY PERIOD LONGER THAN THREE WEEKS, OR THIS LIMITED WARRANTY BECOMES INVALID.
OVENTORP CORP.DISCLAIMES ANY STATUTORY OR IMPLIED WARRANTY OF HABITABILITY.
OVENTORP CORP. FURTHER DISCLAIMES ANY RESPONSIBILITY FOR LOSSES, EXPENSES, INCONVENIENCES, SPECIAL, INDIRECT, SECONDARY, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THE ARTICLES SOLD HEREUNDER.
THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.

Oventrop Corp. 2007

OVENTROP CORP.
TERMS AND CONDITIONS OF SALE

These General Terms and Conditions of Sale and Delivery (these “Terms”) are applicable to all U.S. customers (the “Customers” and each, individually, a “Customer”) of Oventrop Corp., a Delaware corporation (the “Company”).

1. Terms and Conditions of Sale:
1.1 Company shall sell and deliver to Customer and Customer shall purchase and accept from Company the products (herein, the “Products”) described on or in any confirmed order, agreement or quotation, or any combination thereof (the “Order”), pursuant to the terms and conditions of the Order and those specified below, which taken together shall constitute the entire agreement between Company and Customer regarding the Products (herein, this “Agreement”).
1.2 No other terms or conditions shall be of any effect unless otherwise specifically agreed to by Company in a separate written agreement duly signed by an officer of Company. Customer will be deemed to have assented to all Terms if any part of the Products is accepted by Customer. If Customer finds any Term not acceptable, Customer must so notify Company at once and must reject the Products delivered under this Agreement. Any additional or different terms or conditions contained in Customer's order or response hereto shall be deemed objected to by Company and shall be of no effect. No general terms and conditions of a Customer shall at any time form a part of the content of any contract or agreement between the Customer and the Company, even if they are not further expressly rejected by the Company.
1.3 No Order is binding upon the Company until the earlier of acceptance of the Order in writing or the delivery of the Products to the Customer. Notwithstanding any prior acceptance of an Order by Company, Company shall have no obligation if the Customer is in breach of any of its obligations hereunder, or any other agreement between the Customer and Company, at the time Company’s performance was due.
1.4 All verbal agreements concerning the terms of any Order, including agreements made by telephone, shall have no force and effect unless and until acknowledged by the Company in writing.
1.5 Customer shall bear all costs associated with the cancellation or modification of the Order.

2. Technical Data and Information in Catalogs: All technical data and specifications in catalogs, installation instructions, product documentation, price lists, etc. are bench marks only and are not warranted or guaranteed in any manner by the Company. Oventrop may from time to time adjust such technical data and specifications without notice.

3. Prices:
3.1 Unless otherwise stated, all price quotations are EX WORKS (per Incoterms 2000) and do not include costs for packaging, postage or other freight charges, insurance or taxes, if any.
3.2 Products prices will be governed by the Company's current prices in effect from time. A price list is available on request.
3.3 Prices quoted in a currency other than Unites States Dollars are based on the official exchange rate on the date of the quote. Prices will be invoiced on the basis of the currency exchange rate in effect on the date of confirmation of any Order.
3.4 Company may without notice to Customer increase the price of the Products by the amount of any new or increased tax or duty (excluding franchise, net income and excess profits taxes) which Company may be required to pay on the manufacture, sale, transportation, delivery, export, import or use of the Products or the materials required for their manufacture or which affects the cost of such materials

4. Terms of Payment:
4.1 Payment terms are net 30 days from the date of invoice.
4.2 Prices for future deliveries of Products will be governed by the Company’s current price list then in effect, which is available on request. All pricing information contained in catalogs or price lists of Oventrop is subject to confirmation by Company.
4.3 Company may change its prices and delivery terms for Products in its sole discretion, by giving Buyer at least ten (10) days prior notice that there will be a change.
4.4 Company may without notice to Buyer increase the price of the Products by the amount of any new or increased tax (excluding franchise, net income and excess profits taxes) which Company may be required to pay on the manufacture, sale, transportation, import, export, delivery or use of the Products or the materials required for their manufacture or which affects the cost of such materials

5. Taxes: Purchaser agrees to provide Oventrop with its assigned tax exemption number and agrees to pay, in addition to the purchase price, all applicable sales, use, excise, value added or other similar taxes.

6. Delivery Terms
6.1 Except as specified elsewhere herein or in any other as otherwise agreed to in writing between Company and Buyer, orders for Products may not be cancelled without Company’s prior written consent and the payment of cancellation charges. Company shall specify the cancellation charges upon inquiry by Buyer.
6.2 Title to and risk of loss for the Products shall pass to Buyer upon Company’s delivery thereof to carrier and any reference in these terms and conditions to "deliver" shall refer to such delivery.
6.3 The Customer shall not be liable to Buyer for delays in delivery or damage to Products while in transit, irrespective of whether Customer or Buyer determined the mode of transportation

7. Force Majeure: The Company shall not be liable to Buyer or any other person for any failure or delay in the performance of any obligation under this Agreement due to events beyond its reasonable control, including, but not limited to, fire, storm, flood, earthquake, explosion, accident, acts of the public enemy, wars, riots and public disorder, sabotage, strikes, lockouts, labor disputes, labor shortages, work slowdown, stoppages or delays, shortages or failures or delays of energy, materials, supplies or equipment, transportation embargoes or delays, acts of God, breakdown in machinery or equipment, and, except as otherwise set forth in this Agreement, acts or regulations or priorities of the federal, state or local governments. Buyer shall not be liable for delay or failure to take Products as ordered due to any such event, except that Buyer shall be liable to the Company for such delay or failure with respect to Products already in transit or specially made for Buyer which are not readily saleable without loss to the Company. When the event operating to excuse performance by either party shall cease, this Agreement shall continue in full force until all deliveries have been completed

8. Indemnification by Customer:
8.1 Except in cases of Company's willful misconduct or gross negligence, Customer agrees to diligently defend, and to hold harmless and indemnify, Company and its directors, officers, employees, shareholders, affiliates, agents and representatives (the "Company Indemnitees") from and against any and all liability, claims, lawsuits, losses, demands, damages, costs and expenses, including, without limitation, attorney's fees and costs, expert's fees and costs, and court costs, and in each case as such costs are incurred (the "Losses"), (i) arising directly or indirectly out of any use of the Products, whether authorized or unauthorized, and irrespective of whether such claim alleges personal injury, product liability, strict or absolute liability, breach of contract or implied contract or warranty, or any other claim of any nature on any theory of recovery, except to the extent such Losses have been incurred as a direct result of a breach of Company's warranty pursuant to Section 10 or Company's gross negligence or willful misconduct, or (ii) arising out of any breach or misrepresentation of any of Customer's representations or covenants or other terms of this Agreement, including, without limitation, any failure to use or supervise use of the Products strictly in accordance with the User Manual.
8.2 Company will promptly notify Customer of any claim, suit or proceeding that Customer may have indemnification obligations with respect to under this Section; provided, however, that any failure by Company to provide prompt written notice hereunder shall excuse Customer only to the extent that Customer is prejudiced by such failure to give notice. Company shall cooperate with Customer with regard to the defense of any suit or threatened suit. Customer may assume control of the defense of any such claim, proceeding or suit and shall have the authority to settle or otherwise dispose of any such suit or threatened suit, and to appeal any adverse judgment which may be entered, except that Customer must obtain Company's prior written consent to any settlement unless the settlement involves solely the payment of money and all of such payment is payable by Customer, its insurers, and parties other than the Company Indemnitees.
8.3 Customer shall notify Company in writing within 10 days of Customer's receipt of knowledge of any accident or safety incident involving the Products which results in personal injury or damage to property, or any government or similar investigation, claim or inquiry involving the Products. Customer shall fully cooperate with Company in the investigation and determination of the cause of any such accident or incident, and shall make available to Company all statements, reports and tests made by Customer or made available to Customer by others. The furnishing of such information to Company and any investigation by Company of such information or incident report shall not in any way constitute any assumption of any liability for such accident or incident by Company, nor shall it affect the indemnification obligations above.
8.4 Customer represents and warrants that it has in place the necessary insurance and liability waivers to cover the use and operation of the Products by Customer's personnel, customers, and third-party users. In addition, Customer represents and warrants that it maintains a policy of insurance at levels sufficient to support the indemnification obligations assumed by it in this Agreement. Customer will notify Company promptly if Customer's coverage is materially reduced or cancelled.

9. Choice of law and forum: These terms and conditions and any order shall be construed and the rights of the parties shall be interpreted in accordance with the laws of New York. The parties agree that courts located in the New York City, borough of Manhattan, shall be the exclusive forum for any dispute arising hereunder or with respect to any order. The parties expressly waive any objections based on personal jurisdiction or venue and consent to service of process by certified mail, return receipt requested.

10. Limited Warranty: For Warranty terms, see ATTACHMENT A.